

cm  
What is claimed is:

1 1. A connector for connecting a plug to electrically  
2 insulated wires, the connector comprising:

3 p1 a molded housing defining a cavity for receiving the  
4 plug;

5 p1 a first set of connecting elements, each connecting  
6 element being arranged to receive an insulated wire and  
7 to make electrical contact with a core of the insulated  
8 wire;

9 p1 *John* a second set of connecting elements, each of the second  
10 set of connecting elements being connected to a  
11 corresponding one of the first set of connecting elements  
12 and extending from the first set of connecting elements  
13 to the cavity, the second set of connecting elements  
14 being arranged in the cavity to define contacts for  
15 electrical connection to contacts carried by the plug.

1 2.6 A connector according to claim 1, wherein said second set  
2 of connecting elements each have a first portion extending  
3 from the first set of connecting elements and a second portion  
4 extending into the cavity, the second portion extending  
5 substantially at right angles to the first portion.

1 2.7 A connector according to claim 2.6 wherein the housing  
2 comprises a first part and a second part which are secured  
3 together, the second portion of the second set of connecting

elements being bent to extend into the cavity upon the connection of the first housing part and the second housing part.

4. <sup>11</sup> A connector according to claim 1, wherein the first set of connecting elements are formed from generally planar material to define cutting/clamping contact elements having a central contact slot for engaging the connective core of an insulated wire and having an opening which is wider than the contact slot, the contact slot having walls with sharp edges of a width which is less than the core diameter of the insulated wire whereby when a wire is pushed into the contact slot, the insulating material is cut and contact is made between the core and the connecting element.

5. <sup>12</sup> A connector according to claim 4, wherein the housing includes portions defining a slot, the cutting/clamping contact elements being positioned extending from each side of said slot in a plane of substantially 45° with respect to the slot.

6. <sup>2</sup> The connector according to claim 1, wherein the first set of connecting elements are welded to the second set of connecting elements.

7. <sup>3</sup> A connector according to claim 1, wherein the cavity includes an opening for receiving the plug, and a shutter for closing the opening in the absence of a plug.

8. <sup>4</sup> A connector according to claim 1, wherein the housing

includes clamping means for clamping a cable of which the insulated wires form a part.

8. A connector according to claim 3, further comprising means providing a connection between selected ones of the second portion of the second set of connecting elements for one of short circuiting the second set of connecting elements or providing a connection having a selected impedance between the selected ones of the second set of connecting elements.

9. A connector according to claim 7, wherein the first and second housing parts are secured together by a snap fit connection.

10. A connector according to claim 7, wherein the first housing part includes elongate channels for receiving the contact elements.

11. A connector according to claim 1, wherein the housing includes means for connection of the housing to a wall mountable face plate.

13. A connector accordingly to claim 1, further comprising:  
an insert element having electrical contacts, the housing including means for receiving the insert element having electrical contacts for providing an electrical connection between the electrical contacts and the connecting elements.

14. A connector according to claim 13, wherein the insert element is mounted on the housing by means of a plug-in

connection.

15. A connector according to claim 13, wherein the insert carries an electrical device including at least one of a capacitor, a diode, a resistor, which can be connected to the connecting elements by means of the electrical contacts.

16. A connector according to claim 1, further comprising a face plate/adaptor element having an interior surface with a plurality of projecting elements, the projecting elements being arranged and positioned for engaging the housing for mounting the face plate/adaptor element by a clip type connection.

17. A connector according to claim 16, wherein the projecting elements are molded integrally with the material of the face plate.

18. A connector for connecting a modular telecommunication plug to electrically insulated wires, formed by the steps of:

forming a first molded housing part including pillar portions defining a plurality of slots between adjacent pillars and a central portion between a first and second row of pillars, the central portion having a lower surface defining a plurality of grooves and the central portion having a front side surface defining a front surface plurality of grooves aligned with the bottom surface grooves;

11 p1 positioning cutting/clamping contact elements in slots  
12 defined by the housing to form cutting/clamping  
13 connectors between the pillars, the cutting/clamping  
14 contacts including a first set of connecting elements  
15 extending to a lower portion of the first housing  
16 element;

17 p1 positioning a second set of connecting elements in the  
18 lower surface slots, the connecting elements including  
19 contact tongues;

20 p1 welding one of the contact tongues to a corresponding  
21 lower portion of each of the first set of connecting  
22 element to form a first housing part, cutting/clamping  
23 contact elements, first set of connecting elements and  
24 second set of connecting elements subassembly;

25 providing a second housing part defining a cavity for  
26 receiving the modular telecommunication plug, the second  
27 housing part having a surface portion extending into the  
28 cavity;

29 p1 connecting the subassembly and the second housing part  
30 and bending a portion of the connecting elements with the  
31 second housing part surface area such that a portion of  
32 the second set of connecting elements extends into the  
33 cavity angled with respect to a first portion of the  
34 connecting elements.  
35